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(\$4) Title: MAMMALIAN SUBTILISIN/KEXIN ISOZYN SPECIFICITY	55 % for 254 for 255 for 355 f	1: A PROPROTEIN CONVERTASE WITH  10	A UNIQUE CLEAVAGE

Using RT-PCR and degenerate oligonucleotides derived from the active site residues of subtilisin-kexin-like serine proteinases, we have identified a highly conserved and phylogenetically ancestral human, rat and mouse type-I membrane-bound proteinase called subtilisin-kexin-iscozyme-I (SKI-I). Computer data bank searches reveals that human SKI-I was previously in a Sac as Cast dependent function. A SKI-I processed fragment is secreted in culture media in a soluble form. In vitro studies suggest that SKI-I is a Cast-dependent proteinase exhibiting a wide pit optimum for cleavage of proBDNP. Peptides minicking SKI-I cleavages sites are also disclosed. SKI-I procegment has an ex vivo inhibitory effect on SKI-I activity. The prosegment is also processed and secreted in culture media. One fit is fragments is found tightly associated with the SKI-I soluble form. Therapeutic applications for SKI-I bitchistors are disclosed.